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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,169	08/27/2003	Leedor Agam	2808/53	4740
7590 08/24/2007 Dr. Mark Friedman Ltd. c/o Polkinghorn			EXAMINER	
			SHAN, APRIL YING	
9003 Florin Wa Upper Markbor			ART UNIT	PAPER NUMBER
			2135	
			MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/649,169	AGAM ET AL.				
Office Action Summary	Examiner	Art Unit				
	April Y. Shan	2135				
The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a not will apply and will expire SIX (6) MOI ute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06	June 2007.					
	nis action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r <i>Ex parte</i> Quayle, 1935 C.[). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application	on.					
4a) Of the above claim(s) is/are withdo		,				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	/or election requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre	,	•				
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
2. Certified copies of the priority docume						
3. Copies of the certified copies of the pr application from the International Bure		received in this National Stage				
* See the attached detailed Office action for a li	-	received				
·	ot of the continue copies has					
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application				
Paper No(s)/Mail Date:	6) Other:	* *				

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DETAILED ACTION

Response to Amendment

- 1. The Applicant's amendment, filed 06 June 2007, has been received, entered into the record, and respectfully and fully considered.
- 2. As a result of the amendment, claims 1-22 have been amended. Claims 1-22 are now presented for examination.
- 3. Any objections/rejections not repeated below for record are withdrawn due to Applicant's amendment.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 4-7, 9, 12-15, 17-18, 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per **claim 4**, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

As per **claim 5**, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

As per **claim 9**, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

As per claims 12 and 13, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

As per **claim 17**, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

As per **claim 20**, "a one-time value" is being recited on page 7. However, in claim 19, there are first one-time one-time value and second one-time value are being recited. Which is this "a one-time value" referring to? Additionally, "the group" is recited. Since no group is ever recited in the claim, "the group" lacks of antecedent basis.

Any claim not specifically addressed, above, is being rejected as incorporating the deficiencies of a claim upon which it depends.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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8. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (U.S. Pub. No. 20050015588).

As per claim 1, Lin et al. discloses a security token, comprising: a one-time password mechanism, for rendering one-time password functionality (e.g. paragraph [0034]);

a public-key mechanism, for rendering public-key functionality with respect to said onetime password functionality (e.g. paragraphs [0009], [0013] and [0033]- [0034]. Please also see below examiner's response to argument);

and communication means for connecting said security token to said host and ("the token includes an interface for coupling to a computer" - e.g. abstract., paragraph [0028]. Please note an interface corresponds to Applicant's communication means and a computer corresponds to Applicant's host).

Lin et al. does not expressly disclose the communication means for providing to said security token the power supply required for operating at least said public-key mechanism. However, Lin et al. discloses in paragraph [0028], "preferably, the interface 26 is provided in a known Universal Serial Bus (USB) configuration for coupling to a known USB port 28 of the computer 30 via a USB data cable 32". To a person with ordinary skill in the art, USB configuration provides power to the security token.

It would have been obvious that the interface of Lin et al. provides the security token the power supply required for operating at least said public-key mechanism.

The motivation of doing so would have been USB is a serial bus standard to interface device and it is well known that USB provides power to the security token.

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As per **claim 2**, Lin et al. discloses a token as applied above in claim 1. Lin et al. further discloses comprising a display, for displaying at least said one-time password (e.g. paragraph [0024]).

As per **claim 3**, Lin et al. discloses a token as applied above in claim 1. Lin et al. further discloses comprising a smartcard chip, for secure storage of keys and for rendering security-related functionality (e.g. paragraph [0024]).

As per **claim 4**, Lin et al. discloses a token as applied above in claim 1. Lin et al. further discloses wherein said one-time password mechanism comprise means for generating a one-time value, said means selected from a group comprising: a real-time clock, and a counter (e.g. paragraph [0033]).

As per **claim 5**, Lin et al. discloses a token as applied above in claim 1. Lin et al. further discloses wherein said communication means is selected from a group comprising: a display for displaying the password and thereafter manually providing the displayed value to a host, means for connecting said security token to said host via a wired connection, and means for connecting said security token to said host via a wireless connection (e.g. paragraph [0028]).

As per claim 6, Lin et al. discloses a token as applied above in claim 5. Lin et al. further discloses wherein said wired communication means further comprise means for providing a power supply to said security token (Please see rationale in rejecting claim 1 above).

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As per claim 7, Lin et al. discloses a token as applied above in claim 5. Lin et al. does not expressly discloses comprising a chargeable power source, to be charged by the power supplied via said communication means, for providing the power for operating said security token while not connected to said host. However, examiner takes official notice that it is common knowledge and well known in the art. It would have been obvious to a person with ordinary skill in the art to incorporate a chargeable power source, to be charged by the power supplied via said communication means, for providing the power for operating said security token while not connected to said host into Lin et al.'s token. The motivation of doing so would have been to assure that the token is well charged.

As per claim 8, Lin et al. discloses a one-time password security token, for securely providing a one-time value to a host system, said one-time password security token comprising: means for generating said one-time value (please see rationale in rejecting claim 1 above); a public-key infrastructure mechanism, for performing publickey functionality with respect to said one-time value (please see rationale in rejecting claim 1 above); and communication means for connecting said security token with said

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host and for providing said encrypted one-time value to said host (e.g. paragraph

[0028]).

As per **claim 9**, Lin et al. discloses a token as applied above in claim 8. Lin et al. further discloses wherein said public-key functionality with respect to said one-time value is selected from a group comprising: encrypting said one-time value by said public-key functionality, and digitally signing said one-time password (e.g. paragraphs [0033]-[0034]).

As per **claim 10**, Lin et al. discloses a token as applied above in claim 8. Lin et al. further discloses comprising a display, for displaying at least the encrypted one-time value (e.g. paragraphs [0015], [0024] and [0033]-[0034]).

As per **claims 11 and 14**, Lin et al. discloses a token as applied above in claim 8. Lin et al. further discloses comprising a smartcard chip, for rendering security-related functionality (please see rationale in rejecting claim 3 above) and wherein said wired communication means further comprise means for providing a power supply to said security token (e.g. paragraph [0028]).

As per **claim 12**, Lin et al. discloses a token as applied above in claim 8. Lin et al. further discloses wherein said one-time value is selected from a group comprising:

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the real-time, the value of a counter, and a group of random numbers (e.g. paragraphs [0015] and [0033]).

As per claim 13, Lin et al. discloses a token as applied above in claim 13. Lin et al. further discloses wherein said communication means is selected from a group comprising: a display for displaying the password and thereafter manually providing the displayed value to said host, wired communication means with said host, wireless communication means with said host (e.g. paragraphs [0024] and [0028]).

As per claim 15, Lin et al. discloses a token as applied above in claim 8. Lin et al. further discloses a chargeable power source, to be charged by the power supplied by said communication means, for providing the power for operating said security token while not connected to said host (please see above rationale in rejecting claim 7 above).

As per claim 16, Lin et al. discloses a security system comprising: at least one security token comprising: a one-time password mechanism, for rendering one-time password functionality (please see rationale in rejecting claim 1 above); a public-key mechanism, for rendering public-key functionality with respect to said one-time password functionality (please see rationale in rejecting claim 1 above); and communication means for connecting said security token to said host and for providing to said security token the power supply required for operating at least said public-key

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mechanism (please see above rationale in rejecting claim 1 above); a host system,

comprising communication means, corresponding to the

communication means of said at least one security token, for communicating with

said at least one security token (e.g. paragraph [0028]) and for providing to said token

the power supply required for operating at least the public-key mechanism of said

security token (Please see rationale in rejecting claim 1 above).

Lin et al. further discloses in the abstract that "A token device that generates and displays one-time passwords and couples to a computer for inputting or receiving data for generating and outputting one-time passwords and performing other functions is provided" and Lin et al. Therefore, it would have been obvious to a person with ordinary skill in the art at the time of the invention that a host system can have a one-time password mechanism, corresponding to the one-time password mechanism of said at least one security token, for rendering one-time password functionality; a public-key mechanism, corresponding to the public-key mechanism of said at least one security token, for rendering public-key functionality.

The motivation of doing so would have been in order for a host system to "inputting or receiving data for generating and outputting one-time passwords and performing other functions is provided", as taught by the abstract of Lin et al.

As per claim 17, Lin et al. discloses a system as applied above in claim 16. Lin et al. further discloses wherein said communication means is selected from a group comprising: a display embedded within each of said at

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least one security token, for displaying the password and thereafter manually providing the displayed value to said host, wired communication means through which said at least one security token can be provided with the power supply required for performing public-key operations (e.g. paragraph [0028]).

As per claim 18, Lin et al. discloses a system as applied above in claim 16. Lin et al. further discloses wherein each of said at least one security token further comprising chargeable power source, to be charged via the power supply provided by said communication means, for providing the power for operating said at least one processor while not connected to said host, thereby enabling to operate said security token without external power supply (Please see above rationale in rejecting claim 7 above).

As per claim 19, Lin et al. discloses a method for authenticating a client by a host system, said method comprising; at said client side; (a) generating a first one-time value (see rationale in rejecting claim 1 above); (b) performing public-key functionality with respect to said one-time value (see rationale in rejecting claim 1 above); (c) providing said value to said host system (e.g. paragraph [0028]); at said host system side: (d) performing public-key functionality which corresponds to the public key functionality performed at step (b) with the provided value (Please see rationale in rejecting claim 16 above); (e) generating a second one-time value in substantially the same manner as said first one-time value is generated (Please see rationale in rejecting

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claim 16 above); authenticating said client by the correspondence of said second value to said first value (e.g. paragraph [0034]).

As per **claim 20**, Lin et al. discloses a method as applied above in claim 19. Lin et al. further discloses wherein said public-key functionality with respect to said one-time value is selected from a group comprising: encrypting said one-time value, and digitally signing said one-time value (e.g. paragraphs [0015], [0033]-[0034])

As per **claim 21**, Lin et al. discloses a method as applied above in claim 19. Lin et al. further discloses wherein said client is a security token (e.g. abstract).

As per claim 22, Lin et al. discloses a method as applied above in claim 19. Lin et al. further discloses wherein providing the encrypted value to said host is carried out by a member of a group comprising: displaying said encrypted value at the client side and thereafter manually providing the displayed value to said host, means for connecting said security token to said host via a wired connection, and means for connecting said security token to said host via a wireless connection (e.g. paragraph [0028]).

Response to Arguments

9. Applicant's arguments filed 6 June 2007 have been respectfully and fully considered but they are not persuasive.

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10. The Applicant's essential argument on pages 16-19, is "The provisional application filling – U.S. PPA 60/488,585 fails to disclose a public key mechanism as recited in the present application's independent claims of the present application... Provisional Application filing U.S. PPA 60/488,585 fails to disclose a public key mechanism of any kind", the examiner respectfully disagrees.

First, the examiner respectfully points out in U.S. PPA 60/488,585, lines 6-9 discloses "The present invention is a unique token device that generates and displays one-time passwords and that also couples to a computer for inputting or receiving data for generating and outputting one-time passwords and other functions". A token device that generates and displays one-time password relates to data authentication. It is well known in the art that PKI/public key mechanism is one of the other functions besides one-time password in data authentication.

Second, in par. [0013] of the U.S. Pub. No. 20050015588, it discloses "....The token may be multi-functional and capable of **generating and displaying one-time**password as well as performing other functions, such as challenge and response,

PKI, digital certificate, and/or biometric.

Therefore, the subject matter PKI/public key used in the rejection is disclosed in U.S. PPA 60/488,585, in compliance with 35 U.S.C. 112, first paragraph and the subject matter to be entitled to the earlier filing date of July 17, 2003.

11. The Applicant further argues this application is allowable because Lin does not qualify as prior art against the present application because of the PKI/public key

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mechanism using with one-time password token was not disclosed in U.S. PPA 60/488,585 of Lin, the examiner respectfully disagree.

First, the examiner explained why U.S. PPA 60/488,585 of Lin, in compliance with 35 U.S.C. 112, first paragraph and the subject matter to be entitled to the earlier filing date of July 17, 2003 in the above response to arguments.

Second, for the sake of the argument, please note PKI/public key mechanism is well known and common knowledge in the art. So is one-time password token using with PKI mechanism.

Third, there are many more portions of the reference cited in the rejection of record, and that in view of the totality of these disclosures to support the examiner's position that PKI/public key mechanism is well known and common knowledge in the art. So is one-time password token using with PKI mechanism.

Fourth, the examiner again respectfully requests the Applicant to review below pertinent art cited in the first action in order to response to the current office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to 12. applicant's disclosure. In particular, RSA newsletter published on November 1, 1999, Vol. 13 and issue 20. In the newsletter, RSA SedureID 3100 smart card is discussed. The RSA Secure ID 3100 can store two sets of 512- or 1,024 - bit RSA public and private cryptography keys, an RSA SecureID seed record, two digital certificates. Also, in the newsletter, Aladdin will integrate its eToken authentication solution with CyberTrust's PKI digital certificates. Therefore, Aladdin is able to offer a more

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customizable solution to the customers in the form of eToken. Applicant is strongly **urged** to review this reference in response to the current office action.

13. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to April Y. Shan whose telephone number is (571) 270-1014. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1/000.

18 Aubúst 2007

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